CLAIMS

What is claimed is:

1	i .	A method	comprising:
1	1.	1 t mounou	Comprising.

- 2 forming a thin, flexible substrate having a conductor region adapted to
- 3 mount an integrated circuit;
- 4 forming a plurality of traces in the conductor region; and
- forming a plurality of lands coupled to the traces.
- 1 2. The method recited in claim 1, wherein the substrate is formed of material
- 2 from the group comprising a polymeric film, polyimide, polyester, polyparabanic
- 3 acid, epoxy, and fiberglass.
- 1 3. The method recited in claim 1, wherein forming the substrate comprises
- 2 forming a plurality of layers, each comprising a plurality of traces in the conductor
- 3 region.
- 1 4. The method recited in claim 1, wherein forming the substrate comprises
- 2 forming a plurality of sprocket holes outside the conductor region.
- 1 5. The method recited in claim 1, wherein the lands are arranged in a ball grid
- 2 array, the method further comprising:
- 3 forming solder balls on the plurality of lands.
- 1 6. A method comprising:
- 2 forming a thin, flexible substrate having a conductor region comprising a
- 3 plurality of traces and a plurality of lands coupled to the plurality of traces; and
- 4 coupling pads on an integrated circuit (IC) to corresponding lands on the
- 5 substrate.

- 1 7. The method recited in claim 6, wherein the substrate is formed of material
- 2 from the group comprising a polymeric film, polyimide, polyester, polyparabanic
- 3 acid, epoxy, and fiberglass.
- 1 8. The method recited in claim 6, wherein forming the substrate comprises
- 2 forming a plurality of layers, each comprising a plurality of traces in the conductor
- 3 region.
- 1 9. The method recited in claim 6, wherein forming the substrate comprises
- 2 forming a plurality of sprocket holes outside the conductor region.
- 1 10. The method recited in claim 6 and further comprising before coupling:
- 2 forming solder balls on the lands.
- 1 11. The method recited in claim 6 and further comprising:
- 2 mounting the substrate on an additional substrate.
- 1 12. The method recited in claim 11, wherein the additional substrate comprises
- 2 a printed circuit board.
- 1 13. The method recited in claim 11, wherein lands are coupled to corresponding
- 2 terminals on the additional substrate.
- 1 14. The method recited in claim 12 and further comprising before mounting:
- 2 forming solder balls on the lands.
- 1 15. The method recited in claim 12, wherein the lands are coupled to the
- 2 terminals using a ball grid array.

- 1 16. The method recited in claim 12, wherein leads are coupled between
- 2 corresponding lands and terminals.
- 1 17. An electronic package substrate comprising:
- a thin, flexible, electrically insulating film having a conductor region
- 3 adapted to mount an integrated circuit;
- 4 a plurality of traces in the conductor region; and
- 5 a plurality of lands coupled to the traces.
- 1 18. The electronic package substrate recited in claim 17, wherein the film is
- 2 formed of material from the group comprising a polymeric film, polyimide,
- 3 polyester, polyparabanic acid, epoxy, and fiberglass.
- 1 19. The electronic package substrate recited in claim 17, wherein the film
- 2 comprises a plurality of layers, each comprising a plurality of traces in the
- 3 conductor region.
- 1 20. The electronic package substrate recited in claim 17, wherein the lands are
- 2 arranged in a ball grid array.
- 1 21. An electronic package comprising:
- 2 an electrically insulating film having a thickness in the range of
- 3 approximately .15 to .90 millimeters, the film having a conductor region, a plurality
- 4 of traces in the conductor region, and a plurality of lands coupled to the traces; and
- 5 an electronic component having a plurality of pads coupled to the plurality
- 6 of lands.

- 1 22. The electronic package recited in claim 21, wherein the film is formed of
- 2 material from the group comprising a polymeric film, polyimide, polyester,
- 3 polyparabanic acid, epoxy, and fiberglass.
- 1 23. The electronic package recited in claim 21, wherein the film comprises a
- 2 plurality of layers, each comprising a plurality of traces in the conductor region, and
- 3 wherein each layer has a thickness within the range of approximately .15 to .30
- 4 millimeters.

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- 1 24. The electronic package recited in claim 21, wherein the lands are arranged in
- 2 a ball grid array.
- 1 25. The electronic package recited in claim 21, wherein the electronic
- 2 component comprises an integrated circuit.
- 3 26. An electronic system comprising at least one electronic assembly
- 4 comprising:
- 5 a thin, flexible, electrically insulating film having a conductor region, a
- 6 plurality of traces in the conductor region, and a plurality of lands coupled to the
- 7 traces; and
- 8 an electronic component having a plurality of pads coupled to the plurality
- 9 of lands.
- 1 27. The electronic system recited in claim 26, wherein the film is formed of
- 2 material from the group comprising a polymeric film, polyimide, polyester,
- 3 polyparabanic acid, epoxy, and fiberglass.
- 1 28. The electronic system recited in claim 26, wherein the film comprises a
- 2 plurality of layers, each comprising a plurality of traces in the conductor region.

- 1 29. The electronic system recited in claim 26, wherein the lands are arranged in
- 2 a ball grid array.
- 1 30. The electronic system recited in claim 26, wherein the electronic component
- 2 comprises an integrated circuit.
- 1 31. A data processing system comprising:
- a bus coupling components in the data processing system;
- a display coupled to the bus;
- 4 a memory coupled to the bus; and
- 5 a processor coupled to the bus and comprising an electronic assembly
- 6 including,
- 7 a thin, flexible electrically insulating film having a conductor region,
- 8 a plurality of traces in the conductor region, and a plurality of lands coupled
- 9 to the traces; and
- an integrated circuit having a plurality of pads coupled to the
- 11 plurality of lands.
- 1 32. The data processing system recited in claim 31, wherein the film is formed
- 2 of material from the group comprising a polymeric film, polyimide, polyester,
- 3 polyparabanic acid, epoxy, and fiberglass.
- 1 33. The data processing system recited in claim 31, wherein the film comprises a
- 2 plurality of layers, each comprising a plurality of traces in the conductor region.
- 1 34. The data processing system recited in claim 31, wherein the lands are
- 2 arranged in a ball grid array.